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實用新案公報

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ボン煎餅機に於ける焼梓押壓装置

圖面の略解

圖面は本案を示す側面圖なり

實用新案の性質、作用及效果の要領

本案は2枚の焼梓1を重ねて其の中に材料を入れ之を押壓状態の下に加熱し次で急に其の押壓を弛めて煎餅を作る所謂ボン煎餅機に於て焼梓1を押壓する装置に關す即ち押杆2を本體3に固定せる案内筒4に緩挿し其の上端に連杆5の一端を極着し本體3の上部に固定せる軸受6に横杆7の中部を極着し其の先端に連杆5の他端を極着し本體3の下部に固定せる軸受8に足踏杆9の中部を極着し其の先端を連杆10を介して横杆7の末端に連絡す11は押杆2の引上用バネにして12は押杆2下端に螺合せる調整ネジなり本案は足踏杆9を足にて押下ぐる時は連杆10を介して横杆7の末端を押上げ連杆5を介し押杆2を押下し焼梓1を押壓するものなり

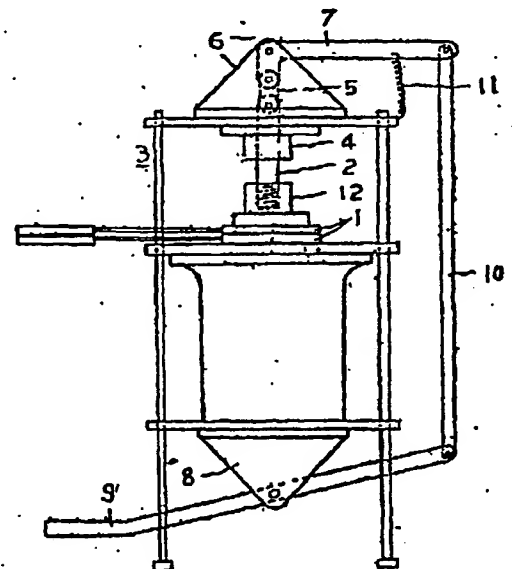
一般にボン煎餅機に於ては把輪を手にて回轉しネジを利用して焼梓1を押壓し焼梓1内の材料が焼ける迄此の状態を保持する必要あり而して焼梓1内には高き蒸氣壓が発生するため押杆が押上げられ従つてネジが逆轉せんとするため手に力を入れて把輪を保持するを要す此のため手が疲勞するのみならず此の時間中は他の仕事を爲し得ざる缺點あり

本案は押壓状態に於ては連杆5横杆7の3極軸が略一直線となることによりて外部より力を殆んど加へざるも押壓状態を保持し得而も押壓する場合には押壓の終期に於て比較的輕くて強力に押壓

し得以て押壓を確實になし且押壓中に於ても手を自由に使用し得る便あり而も調整ネジ12にて押杆2の全長を調整する爲リンクのみにて強力なる押壓作業を確實に確行し得るものなり

登録請求の範圍

圖面に示す如くボン煎餅機に於て押杆2に調整ネジ12を螺合し押杆2に連杆5の一端を極着し其の他端を横杆7の先端に極着し足踏杆9の先端を連杆10を介して横杆7の末端に連絡したる焼梓押壓装置の構造



Unexamined Utility Model Publication No. 26(1951)-5287

A Baking-Frame Pressing Device for a Popped Japanese-Cracker Machine

BRIEF EXPLANATION OF THE DRAWING

The figure shows a side view of the present invention.

SUMMARY OF THE INVENTION: THE ASPECT, OPERATION, AND EFFECT

In a so-called popped Japanese-cracker machine, where one of two baking frames 1 overlaps on top of the other with cracker ingredients being poured therein and heat is applied under a pressurized condition which is followed by releasing the pressure abruptly to make a Japanese cracker, the present invention relates to a pressing device of the baking frame 1. Thus, the device operates such that a push lever 2 is loosely inserted in a guide tube which is fixed to a main body 3, one end of a joint lever 5 is pivotally mounted on an upper end of the pushing lever 2, a middle part of a horizontal lever 7 is pivotally mounted on a bearing 6 which is fixed to an upper part of the main body 3, another end of the joint lever 5 is pivotally mounted on a top end of the horizontal lever 7, the middle part of a foot lever 9 is pivotally mounted on a bearing 8 which is fixed to a lower part of the main body 3, and the end of the foot lever is connected to the horizontal lever 7 via a joint lever 10. 11 is a pull-up spring for the push lever 2 and 12 is an adjusting screw threaded into a lower end of the push lever 2. According to the present invention, a top end of the horizontal lever 7 is pushed up through the joint lever 10 when the foot lever 9 is pushed down by a foot, which in turn pushes the push lever 2 down via the joint lever 5 to press the baking frames 1.

Generally in the popped Japanese-cracker machine, it is necessary to manually rotate a handle and press the baking frames 1 using a screw, and to

keep this condition until the ingredients in the baking frames 1 are baked. However, it is necessary to hold the handle forcibly with the hand since generation of high vapor pressure in the baking frames 1 causes the push lever to be pushed up which in turn causes the screw to rotate in reverse direction. Therefore, there is a disadvantage that the operation not only brings fatigue on the hand but also makes other work impossible to be performed during said operation.

According to the present invention, since three pivotal points of the joint lever 5 and the horizontal lever 7 are generally aligned in the pressured condition, the pressured condition can be held with little exterior force, and moreover, when pressing, the pressure can be applied powerfully with a comparatively light force at a finishing stage of the pressing operation thereby ensuring completion of the pressing stage, providing an advantage of freeing the hand even during the pressing operation. Also, a powerful pressing operation may securely be performed using only a link, because the total length of the lever 2 can be adjusted using the adjusting screw 12.

CLAIMS

In a popped Japanese-cracker machine as shown in the drawing, a structure of a baking-frame pressing device characterized in that;

an adjusting screw 12 is threaded into a push lever 2,

one end of a joint lever 5 is pivotally mounted on the pushing lever 2,

the other end of the joint lever is pivotally mounted on a top end of a horizontal lever 7, and

a top end of a foot lever 9 is connected to a tail end of the horizontal lever 7 via a joint lever 10.